

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Xin, et al.

Serial No.: 10/771,926

Filed: February 4, 2004

Title: PROTEIN-TYROSINE
PHOSPHATASE INHIBITORS AND USES
THEREOF

Case No.: 7041US02



Group Art No.: 1614

Examiner: (not yet assigned)

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TRANSMITTAL LETTER

Dear Sir:

Enclosed herewith for the patent application identified above entitled PROTEIN-
TYROSINE PHOSPHATASE INHIBITORS AND USES THEREOF are the following:

1. Information Disclosure Statement;
2. Form PTO 1449, in duplicate;
3. References as cited on PTO 1449 (21 references); and
4. Return Receipt Postcard.

The Commissioner is hereby authorized to charge any additional Filing Fees required
under 37 CFR §1.16, as well as any patent application processing fees under 37 CFR §1.17
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Respectfully submitted,
Xin, et al.

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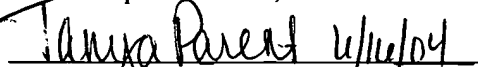


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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

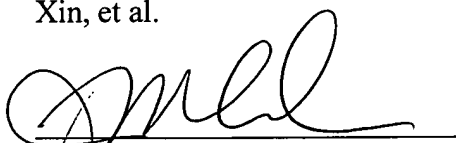
Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed, to the knowledge of the undersigned, before the mailing date of a first Office Action on the merits. Applicants respectfully petition and request that the Examiner consider the listed documents and evidence such consideration by making appropriate notations on the attached form. Copies of the listed documents are attached.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

The Commissioner is authorized to charge our Deposit Account any additional fees (or credit any over payments) that may be required under 37 C.F.R. §§ 1.16 and 1.17 in association with this communication for which full payment has not been tendered.

Respectfully submitted,
Xin, et al.

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Attorney for Applicants



DATE: June 16, 2004 SHEET 1 of 2

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

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7041US02

SERIAL NO.

10/771,926

APPLICANT

Zhili Xin, et al.

FILING DATE

February 4, 2004

GROUP

1614

(37 CFR 1.98 (b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER							PUBLI- CATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION	
													YES	NO
	B1	0	1	1	7	5	1	6	15.03.2001	WO				
	B2	0	1	1	9	8	3	0	22.03.2001	WO				
	B3	0	1	1	9	8	3	1	22.03.2001	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C1	Ahmad, F., et al., "Osmotic Loading of Neutralizing Antibodies Demonstrates a Role for Protein-tyrosine Phosphatase 1B in Negative Regulation of the Insulin Action Pathway (*)", <i>Jour. Biol. Chem.</i> , 270 (35):20503-20508 (1995)
C2	Bryant, N. J., et al., "Regulated Transport of the Glucose Transporter Glut4", <i>Nature Reviews</i> , 3 :267-277 (2002)
C3	Cheng, A., et al., "Coordinated action of protein tyrosine phosphatases in insulin signal transduction", <i>Eur. J. Biochem.</i> , 269 :1050-1059 (2002)
C4	Dunstan, D. W., et al., "The Rising Prevalence of Diabetes and Impaired Glucose Tolerance: The Australian Diabetes, Obesity and Lifestyle Study", <i>Diabetes Care</i> , 25 (5):829-834 (2002)
C5	Elchebly, M., et al., "Increased Insulin Sensitivity and Obesity Resistance in Mice Lacking the protein Tyrosine Phosphatase-1B Gene", <i>Science</i> , 283 :1544-1548 (1999)
C6	Flint, A. J., et al., "Multi-site phosphorylation of the protein tyrosine phosphatase, PTP1B: identification of cell cycle regulated and phorbol ester stimulated sites of phosphorylation", <i>The EMBO Jour.</i> , 12 (5):1937-1946 (1993)
C7	Goldstein, B. J., et al., "Tyrosine Dephosphorylation and Deactivation of Insulin Receptor Substrate-1 by Protein-tyrosine Phosphatase 1B", <i>Jour. Biol. Chem.</i> , 275 (6):4283-4289 (2000)
C8	Groop, L. & Orho-Melander, M., "The dysmetabolic syndrome", <i>Jour. of Internal Med.</i> , 250 :105-120 (2001)
C9	Klaman, L. D., et al., "Increased Energy Expenditure, Decreased Adiposity, and Tissue-Specific Insulin Sensitivity in Protein-Tyrosine Phosphatase 1B-Deficient Mice", <i>Molecular and Cellular Biol.</i> , 20 (15):5479-5489 (2000)
C10	Mauro, L. J., et al., "Identification of a Hormonally Regulated Protein Tyrosine Phosphatase Associated with Bone and Testicular Differentiation", <i>The Journ. of Biol. Chem.</i> , 269 :30659-30667 (1994)
C11	Noguchi, T., et al., "Role of SH-PTP2, a Protein-Tyrosine Phosphatase with Src Homology 2 Domains, in Insulin-Stimulated Ras Activation", <i>Mol. and Cell. Biol.</i> , 14 (10):6674-6682 (1994)
C12	Ostman, A. & Böhmer, F-D., "Regulation of receptor tyrosine kinase signaling by protein tyrosine phosphatases", <i>Trends Cell Biol.</i> , 11 :258-266 (2001)
C13	Saltiel, A. R., & Pessin, J. E., "Insulin signaling pathways in time and space", <i>Trends in Cell Biol.</i> , 12 (2):65-71 (2001)
C14	Seely, L. B., et al., "Protein Tyrosine Phosphatase 1B Interacts With the Activated Insulin Receptor", <i>diabetes</i> , 4 (10):1379-1385 (1996)
C15	Wang, Q., et al., "Mechanism of Inhibition of Protein-Tyrosine Phosphatases by Disodium Aurothiomalate", <i>Biochem. Pharma.</i> , 54 :703-711 (1997)

	C16	Wiener, J. R., <i>et al.</i> , "Overexpression of the Protein Tyrosine Phosphatase PTP1B in Human Breast Cancer: Association With p185 ^{c-erbB-2} Protein Expression", <i>Journ of the Nat'l Cancer Insti.</i> , 86(5) :372-378 (1994)
	C17	Zabolotny, J. M., <i>et al.</i> , "PTO1B Regulates Leptin Signal Transduction in ViVo", <i>Developmental Cell</i> , 2 :489-495 (2002)
	C18	Zinker, B. A., <i>et al.</i> , "PTP1B antisense oligonucleotide lowers PTO1B protein, normalizes blood glucose, and improves insulin sensitivity indiabetic mice", <i>Proc. Natl. Acad. Sci, USA</i> , 99(17) :11357-11362 (2002)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449)